

APPENDIX 8b -- Test Equipment List

General Equipment	Motorola Aftermarket and Accessories Division (AAD) Part	
	Number	Usage Category
500 MHz Four-Channel Digital Storage Oscilloscope	R1612A	Tech
Agilent Technologies Service Advisor Toolkit -- Test Tablet with:	R1683A	Tech
-- Transmission Impairment Measurement Set (TIMS) Module	R1727A	Tech
-- Dual Line DS3/1 Test Module	R1727A	Tech
R2670 Service Monitor with:	R2670B	Tech
- R2670 P25 (ASTRO 25) Option	CM714	Tech
50 Ohm Terminated Load	T1013A	Tech
Antenna Tester 806-960 MHz	R1419A	Shop
Antenna Tester 80MHz-520MHz	R1418A	Shop
IBM PC Compatible Laptop Computer: Dual-Boot DOS and Windows 95, 98, ME, NT & 2000 Compatible -- with CD-ROM Drive	NOTE: These are either Commonwealth- furnished or included in the quantity of ML900 ruggedized laptops ordered.	
Ethernet Service Kit for above item	REX4430A	Tech
Terminal Emulation Software		Tech
Null Modem		Tech
RS232 Cables with connectors		Tech
Punch Block Impact Tool		Tech
MODAPT - RJ-45 Breakout box	8183069X01	Tech
Remote RJ11/RJ45 Cable tester (1200 ft length max)	R1414A	Tech
PC Cable Tester (RG58, 59, 62, BNC, RJ45, RJ11, DB-9, DB15, DB25, Centronics 36 pin	R1415A	Tech
ESD Field Service Kit	0180371B21	Tech
Amprobe Instruments GP-1 Earth Tester	R1542A	Shop
AEMC 3730 Clamp-On Ground Resistance Tester		Tech as Req. (2)
Networking Tools for Field Shop Use		
Fluke OneTouch Network Assistant Series II LAN Tester	RLN4604A	Tech as Req. (1)
T1 or E1 Test Set		Tech as Req. (1)
Agilent Framescope 350 Network Performance Analyzer	R1718A	Tech as Req. (1)
Quantar P25 (ASTRO 25) Integrated Voice & Data Stations		
CSS (Configuration Service Software) Prgm	DLN6455A	Tech
CSS Programming Cable if Ethernet not used	3080369E31	Tech
Bird APM-16 Average-Reading Power Meter for LSS power measurements when R-2670 is not available. This Average Power Reading capability is a feature in the R2670.	R1441A	Tech as Req. (3)
Recommended elements for the Bird APM-16:		
___ 25W, 400-1000 Mhz	0180305F56	Tech as Req. (3)
___ 100W, 400-1000 Mhz	0180305F58	Tech as Req. (3)
___ 500W, 400-1000 Mhz	0180305F59	Tech as Req. (3)
___ 1000W, 400-1000 Mhz	0180305F61	Tech as Req. (3)

APPENDIX 8b -- Test Equipment List

	Motorola Aftermarket and Accessories Division (AAD) Part	
	Number	Usage Category
General Equipment		
7/16" Quick Change connectors for Bird Wattmeter:	TBA	
IEC-7/16" male QC connector	TBA	Tech as Req. (3)
IEC-7/16" female QC connector	TBA	Tech as Req. (3)
Agilent 8712ES Network Analyzer or equivalent for performing total realignment of combiners.	R1731A	Shop

Quantar Analog Conventional Stations

Handset/Microphone with PTT Switch	TMN6164A	Tech
RSS (Radio Service Software)	RVN5002AG	Tech
Quantar RSS programming cable	3080369E31	Tech

Microwave Test Equipment

Agilent E4408B 9kHz-26.5 GHz Spectrum Analyzer, Portable, Softpack	R1732A	
Agilent E4418B Power Meter	R1510A	Tech as req. (4)
Agilent 8481D Power Sensor	RLN5119A	Tech as req. (4)
Agilent 8481H Power Sensor	RT-HP8481H	Tech as req. (4)
Agilent OmniBER 717 Performance Analyzer	TBA	Tech as req. (4)

ASTRO 25 Mobile Radio

CPS (Configuration programming Software)	RVN4184J	Tech
	RKN4105A (USB)	
ASTRO 25 Mobile Radio Programming Cable	RKN4106A (RS-232)	Tech as Req. (6)

ASTRO 25 Portable Radio

CPS (Configuration Programming Software)	RVN4184J	Tech
	RKN4105A (USB)	
ASTRO 25 Portable Radio Programming Cable	RKN4106A (RS-232)	Tech as req. (5)

Notes:

- (1) Required for technicians involved in troubleshooting networking/transport issues.
- (2) Required for technicians involved in surveying sites for R-56 compliance.
- (3) Required to read the higher output power from the site combiners.
- (4) Required for technicians with maintenance responsibilities of microwave equipment.
- (5) Required for technicians with programming responsibilities for subscribers.
- (6) Required for technicians responsible for "Flashing" new software into subscriber units.